

**LEVERAGE LOCKING REVERSIBLE CYCLIC SUTURING
AND KNOT-TYING DEVICE**

ABSTRACT OF THE DISCLOSURE

Embodiments of a suturing device and methods of suturing are disclosed. The device comprises an arcuate needle, a plurality of one way gate mechanisms radially spaced around a portion of the arcuate needle, where each one way gate mechanism engages the needle in one direction, and a driving means for driving the plurality of one way gate mechanism around a portion of the needle such that the needle is incremented along a rotational direction.